

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/771,878	01/30/2001	Sachiko Hiyoshi	010031	9017
23850	7590 10/05/2004		EXAMINER	
ARMSTRONG, KRATZ, QUINTOS, HANSON & BROOKS, LLP 1725 K STREET, NW			WEINSTEIN, STEVEN L	
SUITE 1000	,			PAPER NUMBER
WASHINGTO	ON, DC 20006		1761	
			DATE MAILED: 10/05/2004	1

Please find below and/or attached an Office communication concerning this application or proceeding.

				//		
		Application No.	Applicant(s)	\mathcal{A}		
	Office Asia C	09/771,878	HIYOSHI, SACHII	(O)		
	Office Action Summary	Examiner	Art Unit			
		Steven L. Weinstei	'''			
Period f	The MAILING DATE of this communication or Reply	appears on the cover s	heet with the correspondence ad	dress		
THE - Extended - If the - If NO - Fail Any	HORTENED STATUTORY PERIOD FOR REMAILING DATE OF THIS COMMUNICATION CONTROL OF THIS COMMUNICATION CONTROL OF THE CONTROL OF THIS COMMUNICATION CONTROL OF THE	ON. R 1.136(a). In no event, howeven. a reply within the statutory minimeriod will apply and will expire SI tatute, cause the application to b	um of thirty (30) days will be considered timely (6) MONTHS from the mailing date of this co ecome ABANDONED (35 U.S.C. § 133).	y. ommunication.		
Status						
1)🖂	Responsive to communication(s) filed on 1	16 June 2004.				
2a)□	This action is FINAL . 2b)⊠	This action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	tion of Claims					
5)□ 6)⊠ 7)□	Claim(s) <u>6-17</u> is/are pending in the applica 4a) Of the above claim(s) is/are with Claim(s) is/are allowed. Claim(s) <u>6-17</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and	ndrawn from considerat				
Applicat	tion Papers					
9)[The specification is objected to by the Exar	miner.				
10)	The drawing(s) filed on is/are: a)	· · · · · · · · · · · · · · · · · · ·	-			
	Applicant may not request that any objection to					
11)	Replacement drawing sheet(s) including the co The oath or declaration is objected to by the					
Priority	under 35 U.S.C. § 119					
а)	Acknowledgment is made of a claim for form All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International But See the attached detailed Office action for a	nents have been receiv nents have been receiv priority documents have reau (PCT Rule 17.2(a	ed. ed in Application No e been received in this National)).	Stage		
Attachmen	, ,	_				
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948	4) 🔲 Int	erview Summary (PTO-413) per No(s)/Mail Date			
3) 🔲 Infor	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SE er No(s)/Mail Date	3/08) 5) 🔲 No	per No(s)/Mail Date stice of Informal Patent Application (PTC her:)-152)		

Art Unit: 1761

Claims 10 and 11 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim cannot depend from any other multiple dependent claim.

Claim 9 is a multiple dependent claim. See MPEP § 608.01(n). Accordingly, claims 10 and 11 have not been further treated on the merits.

Claim 10/2 is also objected to as being dependent on a canceled claim (i.e. claim 2).

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 6-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Clark et al ('724) in view of Iwata et al (JP '570) or vice versa, both further in view of Airlie (GB '212) and Lee (EP '251).

In regard to claims 6 and 7, Clark et al discloses a food enclosed in a container and a cover comprising a plastic sheet comprising a surface portion (e.g. 11 in Fig. 11), at least one vent hole (111) provided in the surface portion, and at least one hole-sealing sheet (the combination of 214 and 219) for sealing the vent-hole comprising a base material (219) and a pressure sensitive adhesive layer (214) provided on the base material for attaching the hole-sealing sheet to said surface portion surrounding the vent hole and wherein the pressure sensitive adhesive includes styrene butadiene based polymer and an acryl based polymer (e.g. Example B2 which contains Morstik, a styrene butadiene rubber and the polymer composition of Example A3) and wherein the hole sealing sheet possesses both pressure sensitive and thermo-

Art Unit: 1761

sensitive properties and has a peeling strength at microwave cooking temperatures that is much lower than its peeling strength at lower, non-cooking temperatures. Thus, Clarke et al teaches applicants problem and solution. That is, Clark et al teaches when cooking food by using microwaves in a sealed package, dangerously high pressures and temperatures are generated, and to vent the sealed package at a particular temperature and/or time, one provides a package that has a vent hole covered by a pressure sensitive and heat sensitive tape, which tape is pressure sensitively secured over the vent hole to seal the hole, but loses its adhesive strength when it is heated to the elevated temperature at which the container is to be vented. Iwata et al is further evidence that a vent hole containing heated package wherein the vent hole is covered by a pressure sensitive adhesive tape that is also temperature sensitive at cooking temperatures to allow for venting of the package when the pressure sensitive/heat sensitive tape weakens, is notoriously old. Claims 6 and 7 differ from Clarke et al in the recitation that the adhesive is "consisting" of the styrene- butadiene based rubber, an acryl based rubber and a rosin-based or a petroleum resin based material. As disclosed, the rosin-based or petroleum resin-based components are "stickiness providing materials" so as to have both excellent pressure sensitive and thermo-sensitive properties (page 9, lines 2-5 of the specification). Clark et al (or Iwata et al) does not appear to disclose the addition of a rosin-based or petroleum resin based material. However, as evidenced by Airlie and Lee, it is notoriously old in the adhesive art to provide pressure sensitive adhesive compositions containing both styrene butadiene and acrylate, with resin (or rosin) based materials as tackifiers. This is presumably why applicant includes these materials in the pressure sensitive adhesive since applicant refers to their function as stickiness materials. Airlie discloses that by adding rosins or resins to pressure sensitive adhesives used in

Art Unit: 1761

pressure sensitive labels or adhesive tape, the rosins or resins modify tack, adhesion and cohesive strength, rendering them suitable for use on a wider variety of substrates. Therefore, to modify Clark et al (as further evidenced by Iwata et al) and add a conventional rosin-based or petroleum resin-based tackifying agent for its art recognized (e.g. Airlie and Lee) and applicants intended function is seen to have been obvious in view of the art taken as a whole. Note that the tackifiers are used to control the tackiness of the adhesive in its pressure sensitive function. Note, too, in regard to the peeling strengths, if not inherent in Clark et al, Iwata et al can be relied on to teach strengths within the range and thus are obviously and routinely determinable. It is noted that by employing Clarke et al as the primary reference, a sufficiently new emphasis has been put on the record to warrant a new rejection. In any case, Iwata et al is also still considered appropriate as a primary reference.

Claims 6 and 7 differ from Iwata et al in that the adhesive is recited as consisting of styrene/butadiene, acrylate and a rosin-based or petroleum resin based material. Thus, claims 6 and 7 exclude the foaming material of Iwata et al, which causes the softening of the PSA tape. However, Clark et al teaches a foaming material is not required to provide softening of a PSA tape if the appropriate styrene/butadiene, acrylate PS Adhesive is selected. Therefore, to modify Iwata et al and eliminate the foaming material and its function in view of the art taken as a whole would have been obvious. The addition to Iwata of the rosin-based or petroleum resin based material for its art recognized and applicants intended function is seen to have been obvious as discussed above.

All of applicant's remarks filed 6/16/04 have been fully and carefully considered, but, in regard to the art rejections, are found to be either moot in view of the new ground of rejection or

11 0011 1 01 1 1 01 1 00 1 1 1 1,0

Art Unit: 1761

not convincing, for the reasons given above. However, several points are to be noted. On page 11 of the amendment, it is urged that Clark et al is directed to temperature responsive containers that provide for visually determining the thermal history of a sealed package. This is only one of a series of possible uses that Clark et al teaches for pressure sensitive adhesive tapes that are also temperature sensitive and weaken at predetermined pressures and/or times. As noted above, Clark et al clearly and unequivocally discloses that another use for pressure sensitive/heat sensitive adhesive tapes is to vent sealed packages at a certain temperature or time subjected to cooking which is applicant's intended function. The amendment urges that the temperature of the package should be vented at not more than about 18° C. This urging is totally unconvincing. These disclosed temperatures have nothing to do with the Clark et al's teaching of using the PSA/TSA tape in venting food packages during cooking. Instead, the temperatures in question are clearly directed to Clark et al's embodiment wherein produce is placed within containers which are not cooked at all, but are intended to be stored and vented to allow gas exchange if the stored produce environment becomes too warm (e.g. column 1, paragraph 3). It is also urged that Clark et al does not require the adhesive to be temperature sensitive. Not only does Clarke et al teach that the PSA tape is also temperature sensitive (e.g. column 2, lines 1 plus), which is a sufficient teaching for the obviousness rejection, but all of the examples of Clarke et al employ PSA/TSA tape. The urging that Clarke et al employs a heat recoverable film is only partly correct. The film or tape is temperature sensitive (i.e. the adhesive part of the tape) and heat recoverable (i.e. the substrate or non-adhesive part of the tape. Note that the claims do not exclude heat recoverable tapes. In fact, the art taken as a whole including Clark et al and Iwata et al disclose that the substrate or non-adhesive part of the PSA tape can either be heat-

Art Unit: 1761

recoverable or non-heat recoverable. Further in this regard, and contrary to what is urged on page 13 of the amendment, the Fig. 11 embodiment is not seen to be limited to a PSA tape that does not have thermo-sensitive properties. As with the other PSA, thermo-sensitive adhesives, the adhesive of Fig. 11 is labeled element 214 and not element 215, which was the designation for a non thermo-sensitive PS adhesive as shown, for example, in Fig. 4. It would also not make sense that element 214 in Fig. 11 is not thermo-sensitive because how could the tape (element 219) wrinkle if held by the adhesive? Also, even if somehow the tape part separated from the adhesive, the adhesive would still cover the vent hole. The adhesive tape must be temperature sensitive. However, even if the adhesive could somehow be shown not to be temperature sensitive, the teachings within Clark et al and Iwata teach it would have been obvious to employ a temperature sensitive, PSA tape.

Finally, Airlie and Lee do not teach away from non-permanent adhesives. First of all, they are silent as to the particular environments they are to be used in –i.e., releasable or non-releasable. Secondly, they are only being relied on to teach that tackifiers, including those disclosed, are conventional to control the PS Adhesive qualities desired in a tape.

Finally, applicant has still not responded to the question whether applicant is the inventor of the adhesive or the adhesive tape. He appears not to be the inventor of either. This information is pertinent to a complete determination of what is the art taken as a whole.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven L. Weinstein whose telephone number is (571) 272-1410. The examiner can normally be reached on Monday-Friday from 7:00 a.m. to 3:30 p.m..

Art Unit: 1761

Page 7

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Milton Cano can be reached on (571) 272-1398. The fax phone number for the

organization where this application is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have

questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at

866-217-9197 (toll-free).

S.L. Weinstein/dh October 1, 2004 Steven Weinstein STEVE WEINSTEIN PRIMARY EXAMINER 1761